

Title (en)
WIND TURBINE BLADE WITH SUBMERGED BOUNDARY LAYER CONTROL MEANS COMPRISING CROSSING SUB-CHANNELS

Title (de)
WINDTURBINENSCHAUFEL MIT ÜBERKREUZENDE NEBENKANÄLE UMFASSENDEN VERSENKTEN GRENZSCHICHTSTEUERMITTELN

Title (fr)
PALE D'ÉOLIENNE AVEC UN MOYEN DE CONTRÔLE DE COUCHE LIMITE IMMERGÉE COMPRENANT DES SOUS-CANAUX DE CROISEMENT

Publication
EP 2198153 B1 20110720 (EN)

Application
EP 08784433 A 20080829

Priority

- DK 2008000310 W 20080829
- EP 07388065 A 20070831
- EP 08784433 A 20080829

Abstract (en)
[origin: EP2031244A1] Boundary layer control means to maintain flow of a flowing medium attached to the exterior of a flow control member having a flow control surface, the flow having a flow direction. The means include a channel submerged in the flow control surface. The channel has a first end facing the flow of the flowing medium, a second end positioned downstream in the flow of the flowing medium from the first end, and a bottom surface extending from the first end to the second end. The channel at the first end comprises a first channel zone including a first sub-channel having a first cross-sectional area and a second sub-channel having a second cross-sectional area, the first sub-channel and the second sub-channel crossing each other at a point of crossing.

IPC 8 full level
F03D 1/06 (2006.01); **F01D 5/14** (2006.01)

CPC (source: EP US)
F03D 1/0675 (2013.01 - EP US); **B64C 2230/26** (2013.01 - EP US); **B64C 2230/28** (2013.01 - EP US); **F05B 2240/122** (2013.01 - EP US); **F05B 2240/30** (2013.01 - EP US); **F05B 2240/3062** (2020.08 - EP); **F05D 2240/127** (2013.01 - EP US); **F05D 2240/30** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US); **Y02T 50/10** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2031244 A1 20090304; AT E517255 T1 20110815; CN 101883922 A 20101110; CN 101883922 B 20121121; DK 2198153 T3 20111114; EP 2198153 A1 20100623; EP 2198153 B1 20110720; ES 2370096 T3 20111212; US 2010260614 A1 20101014; US 8550787 B2 20131008; WO 2009026926 A1 20090305

DOCDB simple family (application)
EP 07388065 A 20070831; AT 08784433 T 20080829; CN 200880114642 A 20080829; DK 08784433 T 20080829; DK 2008000310 W 20080829; EP 08784433 A 20080829; ES 08784433 T 20080829; US 73341008 A 20080829